Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A sealing material for a semiconductor device, which is a sealing material containing comprising a fluororubber as a rubber component and is characterized in that, wherein: the fluororubber inevitably contains comprises a cured product of a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer; and copolymerization ratios of respective monomers in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer are such that: content of vinylidene fluoride is in the range of from 25 to 70 mol %; a content of hexafluoropropylene is in the range of from 15 to 60 mol %; a content of tetrafluoroethylene is in the range of from 15 to 60 mol %; and a fluorine content in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in the range of from 71.5 to 75 mass %.
- 2. (currently amended) The sealing material for \underline{a} semiconductor device according to claim 1, wherein curing of the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is performed by irradiation with ionizing radiation.
- 3. (currently amended) The sealing material for \underline{a} semiconductor device according to claim 1 or 2, wherein a fluorine content of the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in the range of from 72 to 74.5 mass %.

- 4. (currently amended) The sealing material for \underline{a} semiconductor device according to claim 2 or 3, wherein an irradiation dose of the ionizing radiation is in the range of from 10 to 500 kGy.
- 5. (currently amended) A sealing material for \underline{a} semiconductor device, which is obtained by crosslinking, with ionizing radiation, a fluororubber preform containing comprising:
- <u>i)</u> a fluororubber component (a) comprising a vinylidene fluoride/ hexafluoropropylene elastic copolymer and/or a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer; and
- $\underline{\text{ii}}$) a non-elastic fluororesin component (b) comprising a vinylidene fluoride (co)polymer in composition of the fluororesin component (b) of 1 to 50 parts by mass relative to 100 parts by mass of the fluororubber component (a).
- 6. (currently amended) The sealing material for \underline{a} semiconductor device according to claim 5, wherein a copolymerization ratio of respective monomers in the vinylidene fluoride/ hexafluoropropylene elastic copolymer is vinylidene fluoride/ hexafluoropropylene = (50 to 95)/(5 to 50) (in mol %).
- 7. (currently amended) The sealing material for <u>a</u> semiconductor device according to claim 5 or 6, wherein a copolymerization ratio of respective monomers in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene = (20 to 80)/(10 to 70)/(10 to 70) (in mol %).

- 8. (currently amended) The sealing material for <u>a</u> semiconductor device according to any of claims 5 to 7 <u>claim</u> <u>5 or 6</u>, wherein a fluorine content of the fluororubber component (a) is in the range of from 65 to 75 mass %.
- 9. (currently amended) The sealing material for \underline{a} semiconductor device according to \underline{any} of claims 5 to 8 claim $\underline{5}$ or 6, wherein a ratio of the fluororubber component (a) and the fluororesin component (b) is 5 to 20 parts by mass of the fluororubber component (b) relative to 100 parts by mass of the fluororubber component (a).
- 10. (currently amended) The sealing material for \underline{a} semiconductor device according to \underline{any} of claims 5 to 9 \underline{claim} 5 or 6, wherein an irradiation dose of the ionizing radiation is in the range of from 10 to 500 kGy.
- 11. (currently amended) A manufacturing method for a sealing material for \underline{a} semiconductor device, comprising the steps of:

in which 100 parts by mass of a fluororubber component
(a) comprising a vinylidene fluoride/ hexafluoropropylene
elastic copolymer and/or a vinylidene fluoride/
hexafluoropropylene/ tetrafluoroethylene elastic copolymer
and 1 to 50 parts by mass of a non-elastic fluororesin
component (b) comprising a vinylidene fluoride (co)polymer
are mixed at a temperature of a melting point of the
fluororesin component (b) or higher, thereafter the mixture
is preformed, and the obtained preform is irradiated with
ionizing radiation

i) mixing a fluororubber component (a) with a nonelastic fluororesin component (b) to obtain a mixture, wherein the fluororubber component (a) comprises a vinylidene fluoride/ hexafluoropropylene elastic copolymer and/or a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer, wherein the non-elastic fluororesin component (b) comprises a vinylidene fluoride (co)polymer, wherein 100 parts by mass of the fluororubber component (a) is mixed with 1 to 50 parts by mass of the non-elastic fluororesin component (b) at a temperature of a melting point of the fluororesin component (b) or higher;

ii) preforming the mixture to obtain a preform; andiii) irradiating the preform with ionizing radiation.